

# KENT-MOORE



## 1989/90 GM SPECIAL SERVICE TOOLS CATALOG

1-800-345-2233



# INTRODUCTION

This catalog contains the Special Service Tools specified for maintenance, repair and overhaul of the 1989/90 General Motors Passenger Car and Light Duty Truck vehicles.

Each tool, equipment item and component has been designed, developed and tested by the Kent-Moore Engineering Department in conjunction with service standards and procedures established by the respective General Motors Division. These Kent-Moore special service products are manufactured specifically for use under the prescribed and authorized service procedures as described in service manuals, bulletins and other publications of the General Motors Corporation.

The intent of our products is to increase service department efficiency and profitability by solving a particular service problem with a unique tool that simplifies the task while minimizing the possible damage to precision parts.

Kent-Moore...when ordinary tools won't do.

## DOING BUSINESS WITH KENT-MOORE

### Ordering Information

As a customer of Kent-Moore, you will receive the highest level of service possible. We are confident you will find the same efficiency when ordering our products as you do when using them.

### Organization

The Kent-Moore Special Tools and Equipment presented in this catalog appear in individual sections corresponding to the automotive component for which they are required. Within each section are illustrations of the tools or tool sets and a brief description of their application, arranged in numerical order by the part number that identifies each product. The part number, most often consisting of a "J" prefix, is specifically referred to in General Motors Divisions' service manuals and technical publications. **A complete numerical listing of all GM tools in this catalog with page references is on the back cover.**

Understanding the Kent-Moore part numbering system will assure you receive exactly the item you require.

### For Example:

J 12345	A complete tool.
J 12345-01 (-02, -03, etc)	A tool updated for additional application or improved function.
J 12345-A (-B, -C, etc)	
J 12345-1 (-2, -3, etc)	Denotes the item is a component or service part part of a complete tool.

### Placing Your Order

A convenient order form/price list is included with this catalog. Additional copies of either are available by contacting our Order Department. The correct part number must appear on all orders. Be sure to include complete "Bill To" and "Ship To" addresses. Emergency orders can generally be filled the same day by contacting the order department directly.

## Kent-Moore

SPX Corporation  
29784 Little Mack  
Roseville, MI 48066-2298  
Telephone: 1-800-345-2233  
Telex: 244040 KMTR UR  
FAX: 313-774-9870

The above address should also be used for:

1. Order follow-up
2. Unlisted tool information
3. Shipping information
4. Claims
5. Returns
6. Pricing Confirmation

**TERMS** Open Account (approved credit) MasterCard, VISA, C.O.D., or cash (check attached)

**TAXES** **United States**  
State and local sales and/or use tax will be added to order if applicable.  
**Canada**  
In Canada, prices include Federal Tax. Provincial Tax will be added to order if applicable.

**SHIPMENTS** **United States**  
Shipment will be made F.O.B. Roseville or Jackson, Michigan.

**ROUTING** **Canada**  
Shipment will be made F.O.B. Windsor, Ontario.  
Shipments will be made by United Parcel Service or truck unless otherwise specified.

**Code:**  
Each KM Tool in this catalog followed by a corresponding divisional application chart for a quick, easy reference.

### Example:

#### Top Letters

C-Chevrolet	P-Pontiac
B-Buick	K-Cadillac
O-Oldsmobile	T-GMC Truck

C	B	O	P	K	T
A		A	X	E	A

### Bottom Letters

E-Essential 1989/90  
A-Available 1989/90  
X-Essential Prior to 1989 Model Year  
Blank-Does Not Apply

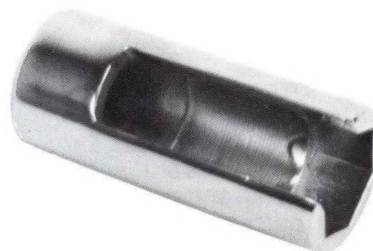


# GAS ENGINE GENERAL

## J 26435-A T.V.S. SOCKET

C	B	O	P	K	T
A	A	A	A	A	A

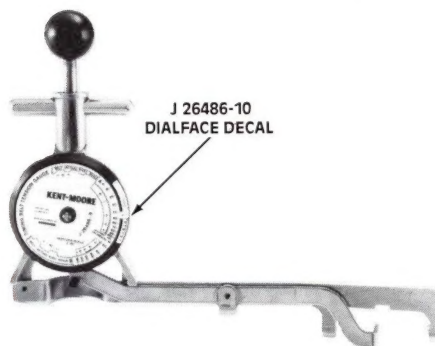
J 26435-A is required to remove and install the new longer GM Thermo Vacuum Switch with a  $\frac{7}{8}$ " hex which can be found on many GM engines including the 5.0L, 5.7L, 3.0L, 3.8L. This socket has a clearance slot for the male hose connectors and will work on both short and longer style switches.



## J 26486-10 TIMING BELT TENSION GAUGE MODIFICATION

C	B	O	P	K	T
			E		

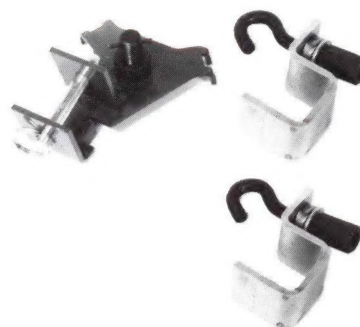
J 26486-10 consists of a new Dial Face Decal and Recalibration instructions required to update the current J-26486-B Timing Belt Tension Gauge for use on the 1.6L engine in the Pontiac Lemans. The Tensioning range is the same for the 1.6L, 1.8L and 2.0L OHC Engines.



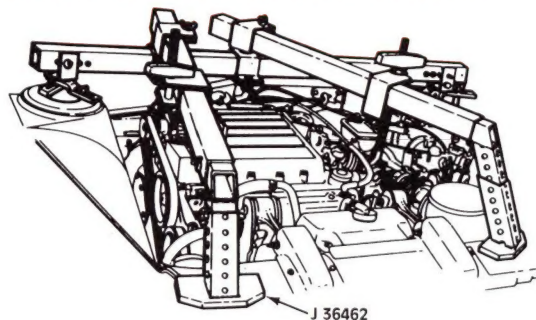
## J 28467-200 ENGINE SUPPORT ADAPTER<sup>†</sup>

C	B	O	P	K	T
E		E	E*		

The sloping windshield on the 1990 U Van requires a special strut mount bracket and lifting hook to adapt the previously essential J 28467-A Engine Support Fixture.

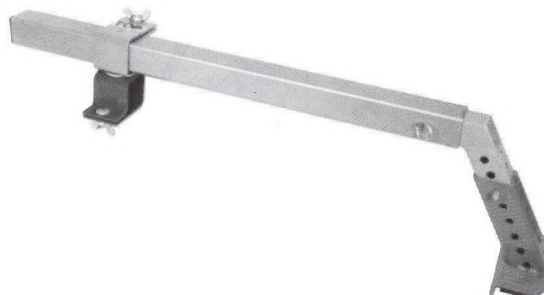


## J 36462 ENGINE SUPPORT ADAPTER LEG SET



C	B	O	P	K	T
E	X	X	X*		

To properly support engines in the W-Car use this adapter set with engine support fixture J 28467-A. J 36462 is a radiator shelf support foot with the necessary components to attach to the support fixture. This provides a (4) point support set-up.





# GAS ENGINE GENERAL (Cont.)

## J 36660 TORQUE/ANGLE METER

C	B	O	P	K	T
A	X	X	X	E	

The torque wrench has been the standard for years for tightening bolts and nuts that clamp parts together. Torque is actually the force used to turn a fastener (bolt or nut) against friction (between threads and between fastener head and component surface). It is a fact that up to 90 percent of torque is used up by friction. The remaining 10 percent is used to clamp parts together. So, by using fastener torque tightening methods, clamping forces can vary significantly over a single cylinder head or other engine component.

Because new high tech products such as the Oldsmobile Quad Four Engine are designed with extremely close tolerances, it is not surprising that torque alone is no longer adequate for proper service procedures on this type of product.

Torque/angle measurement of fastener installations is a method of clamping parts together which insures that like fasteners will exert the same clamp force without deviation from one fastener to the next. Without proper clamping forces, distortion of cylinder bores and bearing bores may occur as well as leaking head gaskets.

The torque/angle method first specifies a low threshold torque on the fastener to get components in close touch. Torque is least affected by fastener friction at these low values.

The fasteners are then turned through a specified angle. The clamping force of each fastener will then be consistent. The 5.0 liter Olds engine in the "D" Car now requires torque/angle meter on the cylinder head & connecting rod cap bolts.

J 36660 is a precision, microprocessor controlled torque/angle meter which will insure fasteners are tightened to true clamp load specifications consistently and easily.

### J 36660 Features:

- State of the art electronics
- Touch pad function controls
- Audible alarm to signal technician that torque/angle specification has been reached
- High impact ABS plastic instrument housing
- Sending unit accommodates 1/2" square drive and 1" hex wrenches
- Custom readout with operational modes and units displayed for ease of operation

### J 36660 Specifications:

- 0 to 200 ft. lb. and 0 to 226 Nm torque range
- 0 degrees to 360 degrees angle range
- Three digit, LCD type readout
- 25 hour battery life (9 volt alkaline)



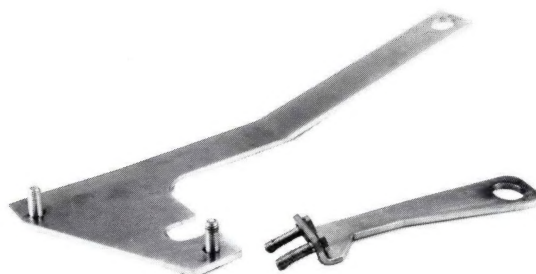


# GAS ENGINE GENERAL (Cont.)

## J 37307 ENGINE LIFTING BRACKET SET †

C	B	O	P	K	T
E					

These brackets are attached to the ZR1 Corvette engine at the front and rear of the block after removal of the transmission and bellhousing. This allows the LT5 engine to be removed and installed from the vehicle with conventional lifting equipment.



# GAS ENGINE FUEL

## J 29658-89 FUEL PRESSURE QUICK CONNECT GAUGE ADAPTERS

C	B	O	P	K	T
E	E	E	E		

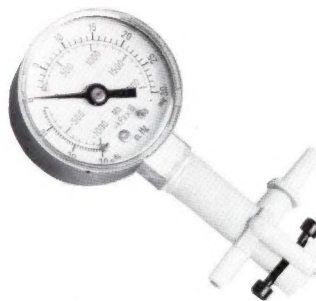
The current threaded fuel line connectors are being replaced with quick connects in 1989 and 1990 on TBI "A" Car & "U" Van. J 29658-89 adapts the previously essential J 29658 TBI Gauge so fuel pressure checks can be accomplished without bending fuel lines. J 29658-999 is also required to achieve a proper connection.



## J 35555-25 PRESSURE GAUGE WITH T-FITTING

C	B	O	P	K	T
			A		

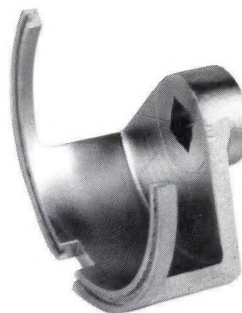
J 35555-25 is a pressure gauge with a T-fitting which will allow pressure readings to be made when using the J 35555 vacuum/pressure pump. One such use is for pressure testing the Pontiac Lemans Fuel Tank.



## J 35731 FUEL TANK SENDING UNIT SPANNER WRENCH

C	B	O	P	K	T
E	X	X	X		

The W-Car Fuel Tank Sending Unit is retained in the top of the tank with a cam lock ring. This ring can be removed and installed with J 35731 and a ratchet.





## GAS ENGINE FUEL (Cont.)

### J 37088 FUEL LINE QUICK CONNECT SEPARATOR

C	B	O	P	K	T
E	E	E	E		

New PFI system fuel lines incorporate quick connects which must be separated with J 37088-1 & -2 to avoid damage to the metal tabs inside the connector body. Use J 37088-1 for  $\frac{3}{8}$ " fuel inlet lines and J 37088-2 for  $\frac{5}{16}$ " fuel return lines.



### J 37287 INLET & RETURN FUEL LINE SHUT OFF ADAPTERS

C	B	O	P	K	T
E	E	E	E		

J 37287 consists of 2 shut off adapters which are connected to the 1989 PFI System fuel lines at the quick connects. J 37287-1 connects to the  $\frac{3}{8}$ " fuel inlet line and is used to shut off fuel during the injector leak-down procedure. J 37287-2 connects to the  $\frac{5}{16}$ " fuel return line and is used to shut off fuel flowing back to the tank during the fuel system pressure test.



## GAS ENGINE QUAD FOUR

### J 37868 CAMSHAFT OIL GALLEY PLUG INSTALLER #

C	B	O	P	K	T
	E	E	A		

J 37868 is used to properly seat and expand the camshaft oil galley plug while it is being installed on the 2.3L Quad 4 engine.



## AUTOMATIC TRANSMISSION 400 THM

### J 21370-10 SERVO GAUGE PIN #

C	B	O	P	K	T
E					E

New selective ranges of servo pins have been released by Hydra-Matic for the 1989 400 THM. The incremental pin lengths have been decreased which increased the number of pin options that could be required when using J 21370 to determine the optimum band apply pin length. Used with previously essential J 21370-6 Servo Gauge Fixture & Arm Assembly.



\* These tools are essential for Pontiac "High-Volume" Dealers only. † These tools are classified "available" for Canadian Dealers. # These tools are classified essential for Canadian "High-Volume" Dealers only.

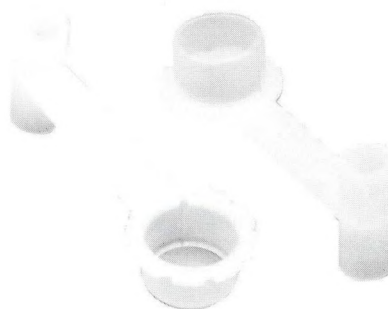


# AUTOMATIC TRANSMISSION 125/440 T4 THM

## J 37292 TEAR-AWAY AXLE SEAL PROTECTOR KIT (PACKAGE OF 2 PROTECTORS)

C	B	O	P	K	T
A	A	A	A	A	A

When replacing axle seals on 125 & 440 T4 transmissions, J 37292 is inserted into the new seal prior to insertion of the drive axle. Then as the drive axle slides through, the seal is protected from any damages which could cause an oil leak.



# MANUAL TRANSMISSION CORVETTE

## J 38126 INPUT SHAFT SEAL INSTALLER

C	B	O	P	K	T
E					

The input shaft seal on the ZF 6-speed transmission must be installed to a specific depth in the input bearing retainer to guard against oil leakage. The seal fits onto J 38126 which has a pilot to expand the seal lip to retain the garter spring. J 38126 installs the seal without damage to the seal lip and seal casing.



# ELECTRICAL CRUISE CONTROL

## J 34185-88 CRUISE QUICK CHECK ADAPTER

C	B	O	P	K	T
A					A

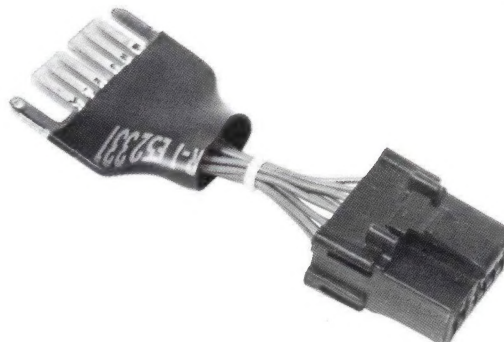
J 34185-88 adapts the J 34185-A cruise control tester to the stepper motor cruise control system found on 1987 and later C/K light duty trucks. The tester and adapter will test and verify all switches, wiring, and function modes for proper operation. Individual LED's detect any faulty components.



## J 34185-89 CRUISE QUICK CHECK ADAPTER

C	B	O	P	K	T
A	A	A	A		

Adapts the J 34185-A Cruise Control Tester to the L & W Car Cruise Control Systems. The tester and adapter will test switches, wiring, and function modes for proper operation.



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# ELECTRICAL ANTI-THEFT SYSTEM

## J 35628 VATS/PASS INTERROGATOR

C	B	O	P	K	T
X			X	E	

The Vehicle Anti-Theft System (VATS), also referred to as the Personal Automotive Security System (PASS), is now standard on the following GM models:  
 Cadillac — 1989 Allante, Eldorado, Seville  
 Chevrolet — 1986-1989 Corvette, 1989 Camaro  
 Pontiac — 1988 Firebird GTA, 1989 all Firebirds  
 The J 35628 Interrogator has four distinct and important diagnostic capabilities which include:

1. It will determine the electronic code of a key. If duplicate keys are needed, just insert a key in the Interrogator and it will display the electronic code.
2. If there are no keys for the car, the Interrogator will input each of the 15 codes into the car. When the car starts, the correct code has been found. Because of the design of the system, this can only be done one code at a time (at four minute intervals) on a trial and error basis. There is no way to avoid this type of test. The J 35628 has a built-in four minute timer to enable this procedure to go as quickly as possible.
3. The Interrogator will determine if there is a fault in the key switch or steering column by reading the key code through these components.
4. A fault downstream of the column or in the VATS Module can also be diagnosed with the Interrogator.



# ELECTRICAL

## J 36884-A SUPPLEMENTAL INFLATABLE RESTRAINT TESTER

C	B	O	P	K	T
		A			

Due to a change in the S.I.R. power supply on the 1989 Oldsmobile Delta 88 and Ninety-Eight, J 36884 S.I.R. Tester has been updated. The updated tester J 36884-A can be used to diagnose S.I.R. electrical system faults on all 1988 and 1989 Oldsmobile S.I.R. systems. Users are instructed to refer to section 9J of the 1989 service manual supplement for diagnostic instructions.

**NOTE:** All Oldsmobile dealers were instructed through a service bulletin to return their 1988 J 36884 Tester to Kent-Moore for this update modification.





# ELECTRICAL (Cont.)

## J 38125 TERMINAL REPAIR KIT †

C	B	O	P	K	T
A	E	E	A	E	A

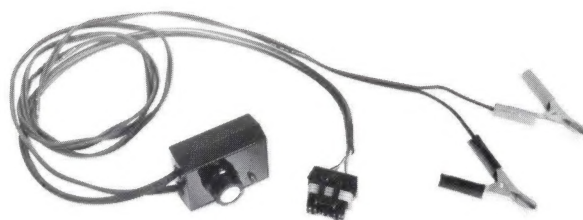
J 38125 includes several tools designed & validated by Packard Electric for use by service technicians to correctly repair wiring products on all GM vehicles. Included are 3 crimping tools, 5 terminal removal tools, and a heat torch for sealing crimp sleeves. Also included are 48 different Packard terminals for use in wire repair procedures. J 38125 comes complete in a plastic storage case with instructions.



## J 38136 WIPER MOTOR TESTER

C	B	O	P	K	T
A	A	A	A	A	A

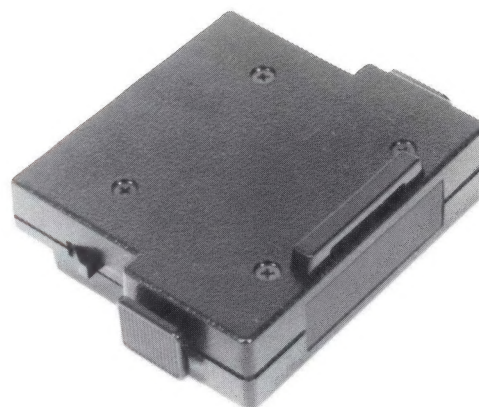
The GM200 U-Van and C/K-Trucks both use a new design windshield wiper motor. J 38136 is used to test all operational functions, mist, pulse, Hi, Lo and Off, for proper operation. J 38136 features a rotary switch for quick function checks and can be used with the motor on or off the vehicle.



## 94-00005-A 1987-89 ECM "PLUS" SOFTWARE CARTRIDGE

C	B	O	P	K	T
	E	E	E		

This software cartridge is for use with all Tech I Scanners, 94 00101-GM, 94 00101, and 94 00101-A. It operates on all 1987 through 1989 vehicles with electronic control modules (ECM) including those with Isuzu and Daewoo and diesel engines. This cartridge is designed to provide all the basic "scan" type functions of reading ECM data, as well as providing additional functions to aid diagnosis of vehicle driveability problems. An additional function of this cartridge is a "snapshot" feature that allows the technician to collect data before and after ECM code sets or a manual trigger. This data can then be reviewed by the technician at his convenience.



NOTE: 94-00005-A was included with 94-00101-A Tech I Kit for Buick/Olds and was purchased separately by Pontiac Dealers.



# ELECTRICAL (Cont.)

## 94-00008-A 1988-89 W-CAR (GM-10) SOFTWARE CARTRIDGE

C	B	O	P	K	T
	E	E	A		

This software cartridge is for use with the Tech 1 Scanner part number 94-00101-GM. It operates on 1988-89 W-body vehicles equipped with GM-10 electronics providing testing of ECM, ABS, IPC computer modules and E & C Bus Components.

### NOTICE:

Early versions of the Tech 1 (those having a serial number of 2000 or less) will require the use of an E&C Bus Adapter part number 94-00025 for use with the GM-10 Software Cartridge part number 94-00008-A. This adapter is currently available from Kent-Moore by calling 1-800 GM TOOLS.

## 94-00101-A TECH 1 DELUXE KIT

C	B	O	P	K	T
	E	E	X		

The Tech 1 is a handheld diagnostic computer designed specifically to help you diagnose and repair GM electronic systems. Employing interchangeable program cartridges, it can be adapted to operate with virtually all GM electronic systems ranging from the simplest to the most complex. It uses the same basic computer that is used in the on-vehicle GM electronics to ensure total compatibility. The Tech 1 has been developed by GM for your exclusive use in diagnosing and repairing GM electronically-equipped vehicles.

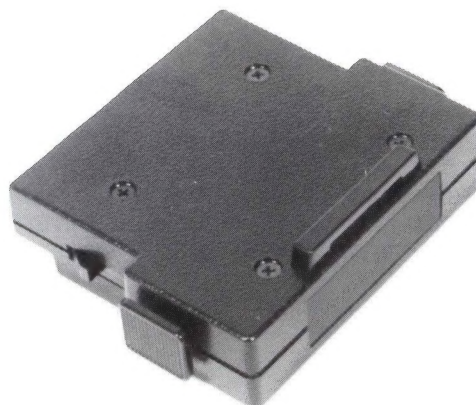
The Tech 1 gets its power from the vehicle cigarette lighter and talks to the vehicle electronic system via the Assembly Line Diagnostic Link (ALDL) connector. When connected to the ALDL, the Tech 1 can readout trouble codes, diagnostic data, and, depending on the cartridge used, can actually control vehicle conditions for troubleshooting for automatic testing. With its large, sunlight-readable display, the Tech 1 tells you in "plain English" what to do next so you can get started fast using the Tech 1 without the need to keep referring to the Operator's Manual. You can respond to the Tech 1 through the keyboard which commands it to retrieve the diagnostic data that you want to control, or conduct the test that you want to run.

### Features:

- Tactile feel key pad entry system
- GM Engineering support for the tools
- Simultaneously engineered with new vehicle systems

### Includes:

- 94-00005-A ALL 87-89 ECM — operates on all 1987-89 gas and diesel vehicles including those with Isuzu & Daewoo engines and functions with Cadillac C-Car 1987-89 Body Computer Module (BCM)



94-00011

ALL 81-86 ECM — operates on all 1981-86 vehicles and functions with Cadillac C-Car 1985-86 Body Computer Module (BCM)

94-00012

Tech 1 unit

94-00013

ALDL Cable (US version)

94-00014

ALDL Pin E Adapter used with All 87-89 ECM AND F&Y 86-89 5/5.7L FTD cartridges

94-00015

Self-test Adapter (US version)

94-00016

ECM 5-pin Adapter used with ALL 81-86 ECM

94-00017

Storage case

94-00018

Tech 1 Basic Operators Manual

94-00019

All 81-86 & 87-89 ECM cartridge manual

94-00027

Isuzu 3-pin Adapter used with ALL 87-89 ECM "Plus" cartridge





# SUSPENSION CORVETTE

## J 33432-88 FRONT LEAF SPRING COMPRESSOR ADAPTERS

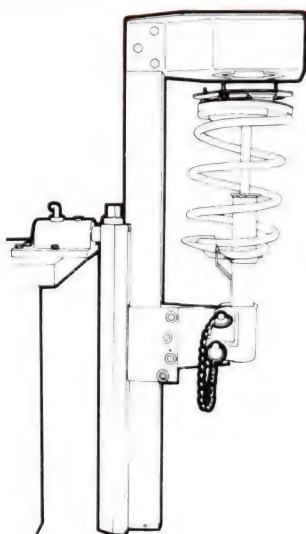
C	B	O	P	K	T
E					

The front transverse leaf spring in the 1988 Corvette has been increased in width for improved ride and handling. The current J 33432 U brackets are too narrow to fit the wider spring. J 33432-88 Adapters replace the U brackets and apply to 1984 through current Corvettes.



# SUSPENSION W-CAR

## J 34013-B STRUT SPRING COMPRESSOR



C	B	O	P	K	T
E	X	X	X	X	

The struts on 1984 and newer General Motors vehicles incorporate a number of design changes including a deflector and large diameter springs. The design of the new struts led to the development of the J 34013-B Strut Spring Compressor.

J 34013-B was designed to incorporate the innovative features of the previously released Strut Compressor in addition to the following:

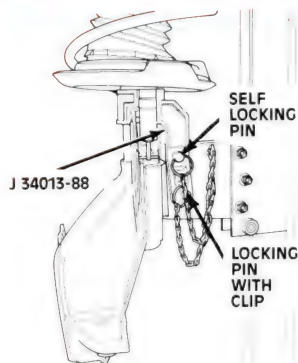
- Conveniently mounts in the J 3289-20 Holding Fixture Base (not included).
  - Compresses all GM Struts.
  - Heavy Duty design.
  - Designed for use with an air ratchet.
- Complete operating instructions included.





# SUSPENSION W-CAR (Cont.)

## J 34013-88 STRUT COMPRESSOR ADAPTER



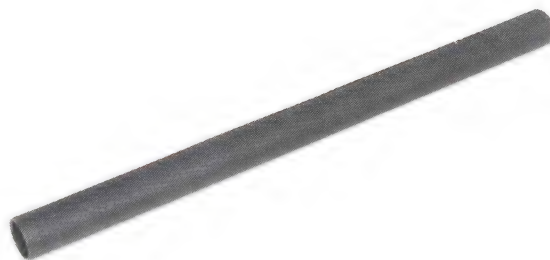
C	B	O	P	K	T
E	X	X	X*		

Securely mounts the strut in the compressing fixture J 34013-B for assembly and disassembly. This easy-to-use adapter mounts with quick release pins and has a spring pin locking feature. This adapter works on both W-Car and Pontiac Lemans struts.

## J 35668 STRUT EXTENSION ROD

C	B	O	P	K	T
E	X	X	X		

The W-Car Strut can be serviced on-car. Use J 35668 to guide the strut shaft through the strut mount and spring bearing assembly when reassembling the strut. This tool is also required for off-car strut service using J 34013-A & J-34013-B Strut Compressor.



## J 35670 JOUNCE BUMPER RETAINER WRENCH

C	B	O	P	K	T
E	X	X	X*		

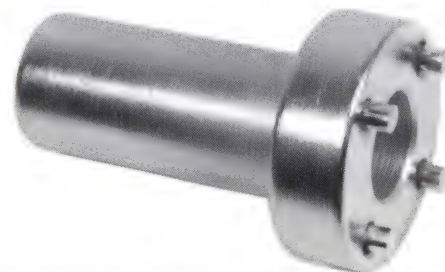
J 35670 is required to remove or install the Jounce Bumper Retainer on the W-Car strut. The wrench engages in (3) slots in the retainer and has a 1/2" female square drive.



## J 35671 STRUT CAP NUT WRENCH

C	B	O	P	K	T
E	X	X	X*		

The Strut Cartridge Closure Nut is a stamped metal nut which retains the strut cartridge in the tube. J 35671 is designed with (4) pins that engage in holes in the nut for removal and installation. The nut must be removed to replace a strut cartridge.

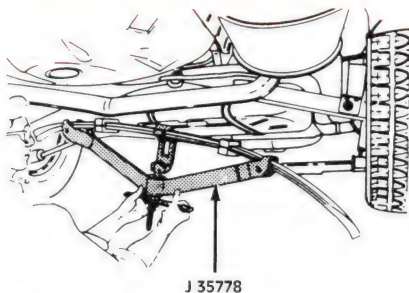


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# SUSPENSION W-CAR (Cont.)

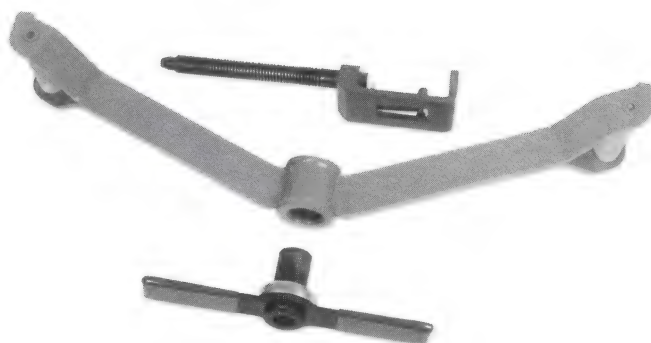
## J 35778 REAR LEAF SPRING COMPRESSOR



J 35778

C	B	O	P	K	T
E	X	X	X*		

The W-Car is equipped with a composite fiberglass monoleaf spring which can be removed and installed with J 35778. This tool will compress or flatten the spring for spring replacement or other rear suspension service. J 35778 is of heavy duty construction with instructions included.



## J 36892-A STRUT ALIGNMENT TEMPLATE

C	B	O	P	K	T
E	X	X	X		

The W-Car wheel alignment procedure instructs the technician to elongate strut mount holes in the strut tower for camber adjustment. J 36892-A is a template with openings to accommodate 8mm & 10mm strut mount studs to assist in this modification. Instructions are detailed on this plastic template.



## J 35917 TIE ROD PULLER/BALL JOINT REMOVER

C	B	O	P	K	T
E	X	X	X		

J 35917 is required to separate the ball joint from the front lower control arm and is also used to pull the tie rods on the W-Car. The tool securely engages each component when performing these procedures.



## J 37956 REAR AUXILIARY SPRING COMPRESSOR

C	B	O	P	K	T
E	E	E	E		

The rear auxiliary spring on the W-Car must be removed to; remove the rear strut, knuckle, or lateral link, and to make a rear camber adjustment. J 37956 is a special c-clamp that engages on the top of the auxiliary spring and on the rear lateral link. The link to the knuckle mounting bolt is then removed and the spring is allowed to relax.



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# SUSPENSION GENERAL

## J 37418 SEQUENTIAL SPEED DAMPING PINOUT ADAPTER †

C	B	O	P	K	T
				E	

J 37418 adapts previously essential J 35592 Pinout Box to the Sequential Speed Damping Controller Harness, so that a standard D.V.O.M. such as J 34029-A, can be used for system troubleshooting.



# SUSPENSION W/C/E/K/V-CARS

## J 35669 STRUT ROD NUT REMOVER AND INSTALLER

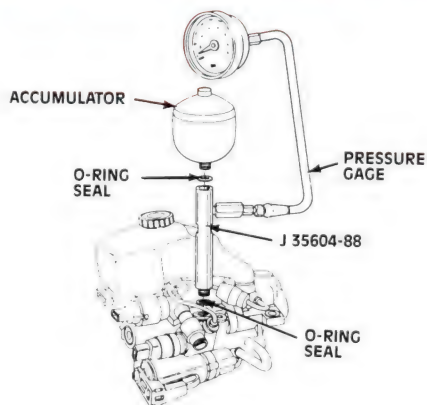
C	B	O	P	K	T
E	X	X	X*	E	

The Strut Rod Nut is in a recessed area on the W-Car strut. This special socket is used with a torx #50 bit and extension to remove the nut while holding the shaft. This tool is for on or off-car strut service. Also used on C, E, K, V-Cars.



# BRAKES TEVES ABS

## J 35604-88 TEVES ABS PRESSURE GAUGE ADAPTER #



C	B	O	P	K	T
	E	E	E	E	

Due to a design change to the Teves anti-lock brake system, the accumulator pressure is now checked at the accumulator port. J 35604-88 adapter is assembled between the accumulator and the hydraulic unit, then J 35604 pressure gauge assembly is installed into the -88 adapter for pressure checks. This adapter will work on all Teves Systems.



\* These tools are essential for Pontiac "High-Volume" Dealers only. † These tools are classified "available" for Canadian Dealers. # These tools are classified essential for Canadian "High-Volume" Dealers only.



# BRAKES W-CAR

## J 35883 BRAKE BOOSTER FIXTURE ADAPTER

C	B	O	P	K	T
E	X	X	X		

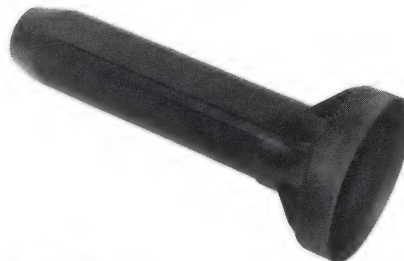
J 35883 is to be used with J 23456 Brake Booster Holding Fixture to separate the W-Car brake booster. This adapter securely holds the booster for the overhaul procedure. J 35883 includes protectors for the mounting studs which are used to turn and separate the booster.



## J 36349 FRONT CALIPER DUST BOOT SEAL INSTALLER

C	B	O	P	K	T
E	X	X	X		

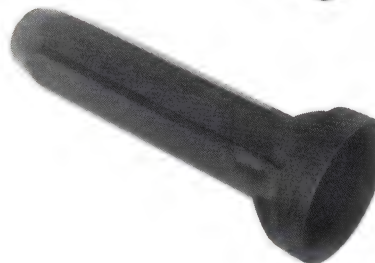
J 36349 assures damage-free installation of the (2) dust boot seals in the W-Car front brake caliper.



## J 36350 REAR CALIPER DUST BOOT SEAL INSTALLER

C	B	O	P	K	T
E	X	X	X		

This installer is required to properly install the W-Car rear caliper dust boot seal without damage.



## J 36581 REAR CALIPER BOLT TORQUE WRENCH ADAPTER

C	B	O	P	K	T
E	X	X	X		

J 36581 is required to install to the proper torque the rear brake caliper mounting bolts on the W-Car when servicing the caliper. This adapter allows for the use of a torque wrench on the outside of the caliper because the mounting bolt heads are on the backside where clearance is limited.



## J 36627-A CALIPER PISTON LOCATOR RING INSTALLER

C	B	O	P	K	T
E	X	X	X		

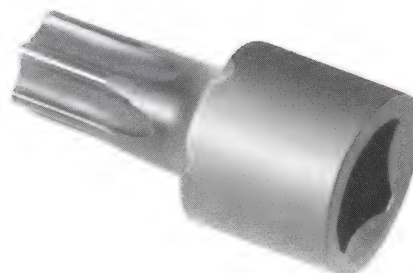
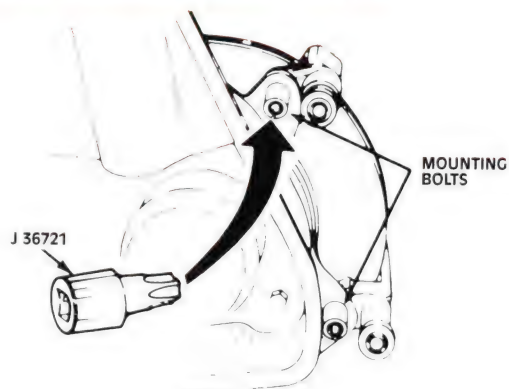
J 36627-A is a two piece tool consisting of a ring expander and an installer used to install the piston locator ring on the piston of the rear brake caliper. Proper positioning of the ring could be difficult without the use of this tool on the W-Car.





# BRAKES W-CAR (Cont.)

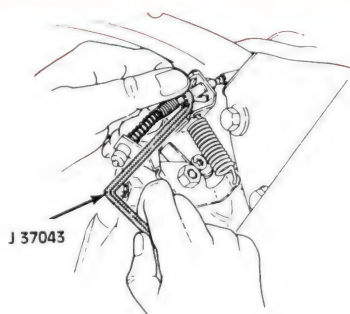
## J 36721 FRONT CALIPER BRACKET TORX BIT



C	B	O	P	K	T
E	X	X	X	X	

J 36721 is a #60 torx bit which is required for removal and installation of the front brake caliper mounting bracket bolts on the W-Car. The bolts must be removed when serving or replacing the brake rotor.

## J 37043 PARKING BRAKE CABLE RELEASE TOOL



C	B	O	P	K	T
E	X	X	X	X	

J 37043 is required to release the parking brake cable from the rear calipers and from the underbody bracket on all W-Cars. This tool compresses a collet type lock which retains the cable.

## J 37160-A BRAKE ROTOR MOUNTING ADAPTER

C	B	O	P	K	T
E	X	X	X	X	

Brake rotor resurfacing for the W-Car requires the use of J 37160-A. This tool will preload the rotor to assure even resurfacing and will adapt to brake lathes for the requirement of close tolerances on the finish of the rotor surfaces. J 37160-50 adapter sleeve is required for use with 7/8" diameter lathe arbors.



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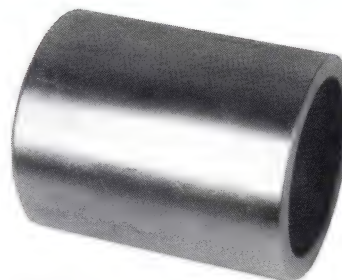


# BRAKES W-CAR(Cont.)

## J 37160-50 ADAPTER SLEEVE

C	B	O	P	K	T
A	A	A	A		

J 37160-A is a W-Car adapter used when refinishing brake rotors which simulates the rotors as attached to the vehicle hub. J 37160-50 is a sleeve which adapts J 37160 & J 37160-A to brake lathes which have a  $\frac{7}{8}$ " arbor shaft as opposed to the more common 1" arbor shaft lathes.



# BRAKES ABS PM-III

## J 37115 BRAKE PRESSURE BLEEDER ADAPTER

C	B	O	P	K	T
	E	E	E		

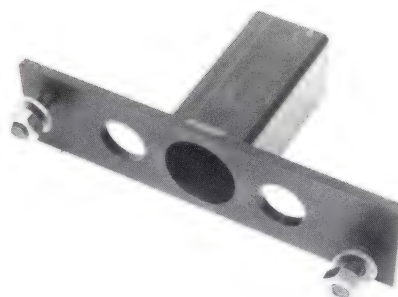
Bleeding the brake system on the W-Car Delco-Moraine ABS Powermaster III may be done quickly and easily by using J 37115 adapter, along with J 29532 diaphragm type pressure bleeder. J 37115 enables the entire ABS brake system to be bled with one hook up.



## J 37116 HOLDING FIXTURE

C	B	O	P	K	T
	E	E	E		

This fixture is used with a vise to support the W-Car Power Master ABS III unit during off-car service. The purpose of the tool is to prevent damaging any of the Power Master III external components that could occur by placing the unit directly on a bench during service.



## J 37117 PRESSURE SWITCH SOCKET #

C	B	O	P	K	T
	E	E	E		

This specially designed deep well socket has a thin wall which fits over the pressure switch connector for proper removal and installation of the pressure switch on the W-Car ABS PM-III Brake system.





# BRAKES ABS PM-III (Cont.)

## J 37118 BRAKE SYSTEM PRESSURE TESTER

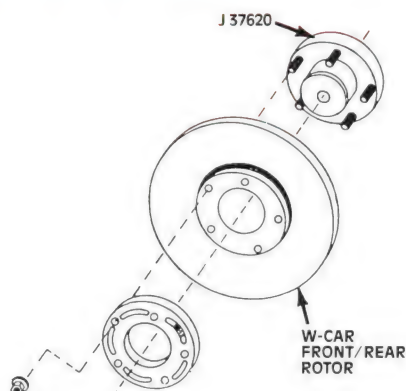
C	B	O	P	K	T
	E	E	E		

The J 37118 pressure gauge is used for proper diagnostic checks on the ABS Powermaster-III System. J 37118 incorporates a 0-5000 PSI gauge, and, with its specially designed adapter, adapts to the accumulator port.



# BRAKES GENERAL

## J 37620 BRAKE ROTOR TURNING TOOL



C	B	O	P	K	T
E					E

J 37620 is required to turn brake rotors on the K/10 and K/20 model Light Duty Trucks. These new models utilize a composite design rotor consisting of a stamped "Hat Section" and cast braking surface. It is extremely important that the "Hat Section" be fully supported to provide the rigidity necessary for a surface finish that meets factory specifications. J 37620 is designed to duplicate the loads created when the rotor is clamped between the hub and the wheels, preventing deflection of the rotor while performing brake rotor resurfacing.

J 37620 duplicates the machining method used in the original manufacturing process and will consistently provide a surface finish that meets factory specifications for new rotors. These specifications include:

- Surface finish
- Runout
- Thickness variation

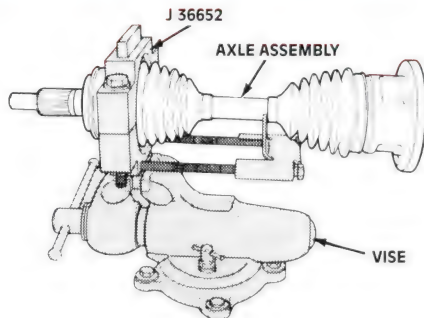
J 37620 is designed for use with all brake lathes utilizing a 1" arbor, and with the optional J 37620-100 is easily adapted to lathes with 7/8" arbor. J 37620-100 comes complete with a precision machined sleeve and tube of loctite.





# DRIVE AXLE K-TRUCK

## J 36652 DRIVE AXLE SWAGE CLAMP TOOL



C	B	O	P	K	T
E					E

J 36652, Drive Axle Swage clamp Tool, installs the new style swage clamps on the inboard Tripot Housing and the outboard C/V Joint Housing of the 1988 1/2 K30 and the 1989 K-10/20 Front Drive Axles. The new swage clamps are an earless one piece design, requiring the use of J 36652 to apply equal pressure to the entire clamp, providing accurate clamp location and a weather tight seal.

Includes 3 swage clamp fixtures, support bolts, support bracket, and custom molded case.



# DIFFERENTIAL GENERAL

## J 37163 DIFFERENTIAL PINION NUT SOCKET

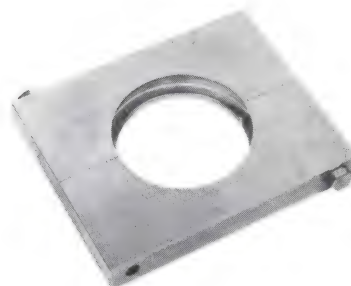
C	B	O	P	K	T
E					

The 1988 Corvette with the manual transmission is equipped with the Dana 44 rear axle. The pinion nut is larger (1 5/16") than on the Dana 36, so there is minimal clearance between the nut and the differential yoke. J 37163 is a thin wall design which allows removal and re-torquing of the nut during service.

## J 37623 PINION BEARING REMOVER

C	B	O	P	K	T
E					E

J 37623 is a split plate type puller required to remove the new larger pinion bearing from the drive pinion of the (10 1/2" Ring Gear) rear axle on 1988 R, V, & P Trucks. This bearing must be removed for replacement or to add shims when resetting the pinion. J 37623 will capture the bearing for removal where standard pullers may damage the bearing cage.



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# DIFFERENTIAL GENERAL (Cont.)

## J 37624 PINION BEARING CUP INSTALLER

C	B	O	P	K	T
E					E

The (10½" ring gear) rear axle on R, V, P trucks has a new larger pinion bearing for 1988. J 37624 is used to install the bearing cup into the retainer. This tool is designed for use with J 8092 Driver Handle. J 37623 is used to remove the pinion bearing cone.

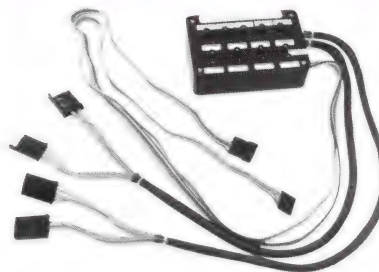


# STEERING GENERAL

## J 37608 STEERING WHEEL CONTROL ADAPTER

C	B	O	P	K	T
	E	E	E		

J 37608 allows system diagnosis of redundant radio and climate controls located in the steering wheel of 1989 vehicles equipped with the bidirectional E & C serial data buss.



## J 37609 POWER STEERING PUMP PULLEY REMOVER FORCING SCREW #

C	B	O	P	K	T
X		E	X*		

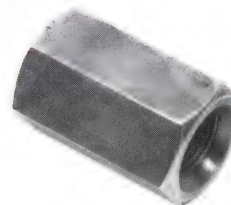
The 1990 U Van power steering pump pulley requires J 37609 special forcing screw which has a long slender tip to allow for reaction against the pump shaft. J 37609 is used with the body from J 25034-B Puller.



## J 37686 R/V STEERING LINKAGE INSTALLER

C	B	O	P	K	T
E					E

J 37686 and a torque wrench are used in place of the prevailing torque nuts on the R/V trucks to seat the steering linkage over the tapered mounting studs.



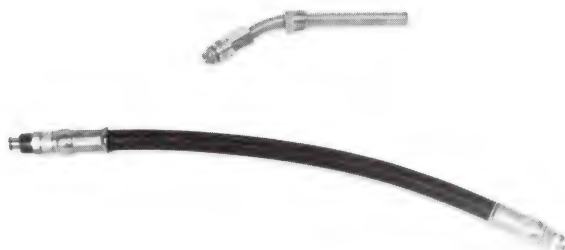


# STEERING W-CAR

## J 38049 POWER STEERING PRESSURE TEST ADAPTER SET #

C	B	O	P	K	T
E	E	E	E		

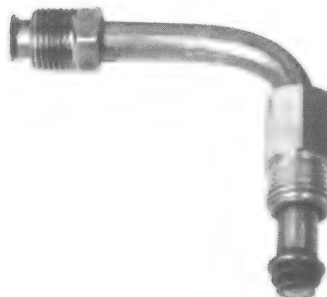
J 38049 Adapter Set is designed for use with J 5176-D Power Steering Pressure Tester on the W-Car. The set includes a hose assembly for attachment to the line coming from the steering gear plus a tube assembly for attachment to the pump. An assembly diagram is included. (For Chev. W/2.5L Eng. use J 38049-25.)



## J 38049-25 POWER STEERING PRESSURE TEST ADAPTER #

C	B	O	P	K	T
E					

J 38049-25 Power Steering Pressure Test Adapter Set is designed for use with J 5176-D Power Steering Pressure Tester on the W-Car. The set includes a hose assembly for attachment to the line coming from the steering gear plus a tube assembly for attachment to the pump. Due to clearance problems in the pump area, J 38049-25 Tube Assembly is to be used on the Chevrolet W-Car with 2.5L Engine instead of the J 38049-2 Tube Assembly included with J 38049.



# AIR CONDITIONING CORVETTE

## J 37252 CLUTCH PLATE REMOVAL SCREW

C	B	O	P	K	T
A					

J 37252 screws into the clutch plate and forces against the air conditioning compressor shaft to remove the plate without any damage to the components on the 1988 Corvette Nippondenso A/C Compressor.



# AIR CONDITIONING C/H-CARS

## J 38042 DUEL "O"-RING TUBE SEPARATOR #

C	B	O	P	K	T
	E	E	E	E	

The 1989 C & H cars now utilize a duel o-ring joint on the accumulator inlet & outlet lines. J 38042 allows the technician to separate the joint without damage to the line or internal components.



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# GENERAL

## J 25359 SEAT MOUNT BOLT TORX SOCKET (#10)

C	B	O	P	K	T
A	A	A	A		

The 1989 W-Car Front Seats are mounted with Torx Head Screws. J 25359-12 is a #10 torx Socket which is required to remove and install these fasteners.



## J 36893 TOOL STORAGE CASE

C	B	O	P	K	T
E	X	X	X		

A storage case is a convenient way to organize a specific group of tools in a tool shop. J 36893 is a plastic molded box with special cavities for most of the W-Car service tools. A decal on the case lid identifies the contents and an instruction sheet stored in an inner pouch details the use of each tool.



## J 37097 MUBEA HOSE CLAMP TOOL †

C	B	O	P	K	T
E	E	E	E		

A new style hose clamp which provides a constant force on the connection is now being used on many new GM vehicles. Accessibility to the heater hose clamps on the C/H-Car is limited. J 37097 is used to reach these clamps for removal and installation. The tool has a clamp locking feature and can be used to rotate the clamp ears for proper positioning.



## J 37808 S.I.R. COLUMN LOAD TOOL †

C	B	O	P	K	T
				E	

J 37808 is used to simulate the electrical characteristic of the supplemental inflatable Restraint System on the 1989½ C-Car. The main components of the tool are: a circuit for inflator simulation, a circuit for column simulation, and a connector body for opening the shorting bar at the diagnostic energy reserve module (DERM). J 37808 is equipped with connectors to mate with S.I.R. connectors at the steering wheel & base of the column. All items are packaged in a plastic storage case with an internal face panel which identifies each component.



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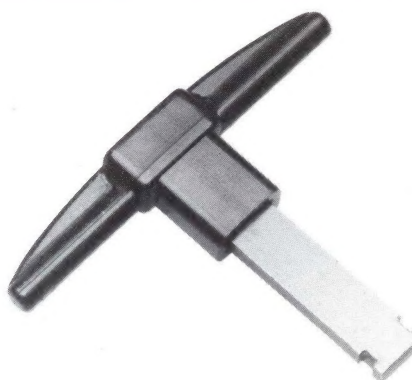


# GENERAL (Cont.)

## J 38043 SUN ROOF T-WRENCH †

C	B	O	P	K	T
E	E	E	E	E	E

J 38043 is required to manually operate the W-Car sun-roof in the event of an electrical failure. The micro-switch, a serviceable part, in the motor assembly may be the cause of the electrical failure which is only accessible by retracting or venting the roof. Additionally, the glass must be in the closed or vented position for removal. The headline must be partially dropped in order to use this tool.



## J 38185 MUBEA HOSE CLAMP PLIERS

C	B	O	P	K	T
A	A	A	A	A	A

The new style Mubea hose clamps used in many GM vehicles provide a constant force on the connection to prevent leakage. The J 38185 pliers are approximately 9 in. long & feature a spring action lock to lock the jaws in 3 positions. The tips swivel 180 degrees & hold the clamp ear securely. (Use J 37097 for hard to reach clamps such as C/H-Car Heater Hose Clamp.)



## J 22888-90 WIPER ARM PULLER ADAPTER

C	B	O	P	K	T
E	E	E	E	E	E

The 1990 U-Van has a 22 in. wiper blade with the wiper arm pressed onto a tapered shaft. This arm can be difficult to remove without the proper tools. The recommended procedure calls for the use of J 22888-20 Puller with J 22888-35 Puller Legs and J 22888-90 Adapter, which must be used in place of the existing screw end on J 22888-20 to prevent slippage. These adapters thread onto the forcing screw.



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Kent-Moore's warranty is expressly limited to persons who purchase Kent-Moore's products or parts for the purpose of resale or use in the ordinary course of the buyer's business. This warranty does not cover any product or part that has been abused, worn out, heated, ground or otherwise altered, used for a purpose other than that which it was intended, or used in a manner inconsistent with any instructions regarding its use.

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# INDEX AND APPLICATION CHART

TOOL NO.	DESCRIPTION							PG. NO.
		CHEVROLET	BUICK	OLDSMOBILE	PONTIAC	CADILLAC	GMC TRUCK	
94-00005-A	1987-89 ECM "Plus" Software Cartridge		E	E	E			8
94-00008-A	1988-89 W-Car (GM-10) Software Cartridge		E	E	A			9
94-00101-A	Tech 1 Deluxe Kit		E	E				9
J 21370-10	Servo Gauge Pin	E					E	5
J 22888-90	Wiper Arm Puller Adapter	E		E	E			22
J 25359	Seat Mount Bolt Torx Socket (#10)	A	A	A	A			21
J 26435-A	T.V.S. Socket	A	A	A	A	A	A	2
J 26486-10	Timing Belt Tension Gauge Modification			E				2
J 28467-200	Engine Support System	E		E	E			2
J 29658-89	Fuel Pressure Quick Connect Gauge Adapters	E	E	E	E			4
J 33432-88	Front Leaf Spring Compressor Adapters	E						10
J 34013-B	Strut Spring Compressor	E	X	X	X			10
J 34013-88	Strut Compressor Adapter	E	X	X	X			11
J 34185-88	Cruise Quick Check Adapter	A					A	6
J 34185-89	Cruise Quick Check Adapter	A	A	A	A			6
J 3555-25	Pressure Gauge with T-Fitting				A			4
J 35604-88	Teves ABS Pressure Gauge Adapter		E	E	E	E		13
J 35628	VATS/PASS Interrogator	X		X	E			7
J 35668	Strut Extension Rod	E	X	X	X			11
J 35669	Strut Rod Nut Remover and Installer	E	X	X	X	E		13
J 35670	Jounce Bumper Retainer Wrench	E	X	X	X			11
J 35671	Strut Cap Nut Wrench	E	X	X	X			11
J 35731	Fuel Tank Sending Unit Spanner Wrench	E	X	X	X			4
J 35778	Rear Leaf Spring Compressor	E	X	X	X			12
J 35883	Brake Booster Fixture Adapter	E	X	X	X			14
J 35917	Tie Rod Puller/Ball Joint Remover	E	X	X	X			12
J 36349	Front Caliper Dust Boot Seal Installer	E	X	X	X			14
J 36350	Rear Caliper Dust Boot Seal Installer	E	X	X	X			14
J 36462	Engine Support Adapter Leg Set	E	X	X	X			2
J 36581	Rear Caliper Bolt Torque Wrench Adapter	E	X	X	X			14
J 36627-A	Caliper Piston Locator Ring Installer	E	X	X	X			14
J 36652	Drive Axle Swage Clamp Tool	E					E	18
J 36660	Torque/Angle Meter	A	X	X	X	E		3
J 36721	Front Caliper Bracket Torx Bit	E	X	X	X			15
J 36884-A	Supplemental Inflatable Restraint Tester			A				7

## KEY

E—ESSENTIAL  
A—AVAILABLE  
X—PREVIOUSLY ESSENTIAL  
BLANK—DOES NOT APPLY

TOOL NO.	DESCRIPTION							PG. NO.
		CHEVROLET	BUICK	OLDSMOBILE	PONTIAC	CADILLAC	GMC TRUCK	
J 36892-A	Strut Alignment Template	E	X	X	X			12
J 36893	Tool Storage Case	E	X	X	X			21
J 37043	Parking Brake Cable Release Tool	E	X	X	X			15
J 37088	Fuel Line Quick Connect Separator	E	E	E	E			5
J 37097	Mubea Hose Clamp Tool		E	E	E	E		21
J 37115	Brake Pressure Bleeder Adapter		E	E	E			16
J 37116	Holding Fixture		E	E	E			16
J 37117	Pressure Switch Socket		E	E	E			16
J 37118	Brake System Pressure Tester		E	E	E			17
J 37160-A	Brake Rotor Mounting Adapter	E	X	X	X			15
J 37160-50	Adapter Sleeve	A	A	A	A			16
J 37163	Differential Pinion Nut Socket	E						18
J 37252	Clutch Plate Removal Screw	A						20
J 37287	Inlet & Return Fuel Line Shut Off Adapters	E	E	E	E			5
J 37292	Tear-Away Axle Seal Protector Kit	A	A	A	A			6
J 37307	Engine Lifting Bracket Set	E						4
J 37418	Sequential Speed Damping Pinout Adapter					E		13
J 37608	Steering Wheel Control Adapter		E	E	E			19
J 37609	Power Steering Pump Pulley Remover	X		E	X			19
J 37620	Brake Rotor Turning Tool	E					E	17
J 37623	Pinion Bearing Remover	E						18
J 37624	Pinion Bearing Cup Installer	E					E	19
J 37686	R/V Steering Linkage Installer	E					E	19
J 37808	S.I.R. Column Load Tool					E		21
J 37868	Camshaft Oil Galley Plug Installer		E	E	A			5
J 37956	Rear Auxiliary Spring Compressor	E	E	E	E			12
J 38042	Dual "O"-Ring Tube Separator		E	E	E	E		20
J 38043	Sun Roof T-Wrench (W-Car)	E	E	E	E			22
J 38049	Power Steering Pressure Test Adapter Set (W-Car)	E	E	E	E			20
J 38049-25	Power Steering Pressure Test Adapter	E						20
J 38125	Terminal Repair Kit	A	E	E	A	E	A	8
J 38126	Input Shaft Seal Installer	E						6
J 38136	Wiper Motor Tester	A		A	A		A	8
J 38185	Mubea Hose Clamp Pliers	A	A	A	A	A	A	22

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